Interstial Sampling of Large and Lipophilic Molecules with an Intact Blood-Brain Barrier

Minimally invasive Open Flow Microperfusion (OFM) permits

- Sampling in the extracellular compartment with an intact blood-brain barrier (BBB)
- Direct access to the interstitial fluid (ISF) of brain
- Continuous and time-resolved sampling for up to 4 days or more
- Investigation of neurological drugs directly in the brain

OFM derives better data and drives better decisions

- Monitoring of substances with excellent temporal resolution
- Absolute quantification of substances
- No limitation regarding lipophilicity or molecular size
- Reduce costs and development time by understanding the pharmacological profile of a drug at an early stage in development
- Competitive edge in characterizing:
  - Bound and Unbound Drug
  - Peptides and Proteins
  - Antibodies
  - Enzymes
  - Nanocarriers (e.g., liposomes)
  - Vesicles
  - Cells
  - pigs, rats, mice, primate, dogs
Microperfusion / Peristaltic Pump for Clinical, Preclinical & Laboratory use

- Push and pull option integrated in one pump
- 2 independent controllable pump heads
- 6 channels (3 per pump head)
- Standard flow rates: 0.1–10 μL/min
- No flow-rate calibration necessary
- Attachable to large animals (dog, pig, primate)
- Power supply via battery or 120V AC power cord
- Perfusion buffer deliver in an enclosed, sealed and γ irradiated bag
- Compatible low bind tubing sets

COFM Systems

- Live Animal Set-up using the BASi Raturn® Movement Responsive Caging
- Raturn® system facilitates direct connection to the animal without a need for swivel
- Multi-application caging options
- Compatible with Rats / Mice or similar sized Rodents
- Anesthetized animal option to minimize tubing distance for sticky lipophilic molecules

Probes and Accessories

- Shaft and exchange area length based on species and anatomy of interest
- Healing dummy that allows recovery of BBB
- Low bind tubing sets for single or multi-probe operations
- Connectors, vials and and perfusate bags

View our full selection of part numbers and prices on the BASi website

www.BASinc.com          www.openflowmicroperfusion.com